

TI Generation of single-stranded T-DNA molecules during the initial stages of T-DNA transfer from Agrobacterium tumefaciens to plant cells.

L1 ANSWER 8 OF 9 AGRICOLA

TI A plant cell factor induces Agrobacterium tumefaciens vir gene expression.

L1 ANSWER 9 OF 9 AGRICOLA

TI Nopaline synthase: transcript mapping and DNA sequence Agrobacterium tumefaciens.

=> d 7 so

L1 ANSWER 7 OF 9 AGRICOLA

SO Nature, Aug 21/27, 1986. Vol. 322, No. 6081. p. 706-712 ill  
Publisher: Neptune, N.J. : Macmillan Journals.  
CODEN: NATUAS; ISSN: 0028-0836

=> d 7 ab

L1 ANSWER 7 OF 9 AGRICOLA

=> d 8 so

L1 ANSWER 8 OF 9 AGRICOLA

SO Proceedings of the National Academy of Sciences of the United States of America, Jan 1986. Vol. 83, No. 2. p. 379-383  
Publisher: Washington, D.C. : The Academy.  
CODEN: PNASA6; ISSN: 0027-8424

=> d 8 ab

L1 ANSWER 8 OF 9 AGRICOLA

=> logoff y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.00	3.21

STN INTERNATIONAL LOGOFF AT 16:48:00 ON 30 DEC 2002

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal649axm

PASSWORD:  
TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America

NEWS 2 Apr 08 "Ask CAS" for self-help around the clock

NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area

NEWS 4 Apr 09 ZDB will be removed from STN  
 NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUIDB  
 NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS  
 NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER  
 NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available  
 NEWS 9 Jun 03 New e-mail delivery for search results now available  
 NEWS 10 Jun 10 MEDLINE Reload  
 NEWS 11 Jun 10 PCTFULL has been reloaded  
 NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment  
 NEWS 13 Jul 22 USAN to be reloaded July 28, 2002;  
 saved answer sets no longer valid  
 NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY  
 NEWS 15 Jul 30 NETFIRST to be removed from STN  
 NEWS 16 Aug 08 CANCERLIT reload  
 NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN  
 NEWS 18 Aug 08 NTIS has been reloaded and enhanced  
 NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE)  
 now available on STN  
 NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUIDB have been reloaded  
 NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded  
 NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced  
 NEWS 23 Sep 03 JAPIO has been reloaded and enhanced  
 NEWS 24 Sep 16 Experimental properties added to the REGISTRY file  
 NEWS 25 Sep 16 Indexing added to some pre-1967 records in CA/CAPLUS  
 NEWS 26 Sep 16 CA Section Thesaurus available in CAPLUS and CA  
 NEWS 27 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985  
 NEWS 28 Oct 21 EVENTLINE has been reloaded  
 NEWS 29 Oct 24 BEILSTEIN adds new search fields  
 NEWS 30 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN  
 NEWS 31 Oct 25 MEDLINE SDI run of October 8, 2002  
 NEWS 32 Nov 18 DKILIT has been renamed APOLLIT  
 NEWS 33 Nov 25 More calculated properties added to REGISTRY  
 NEWS 34 Dec 02 TIBKAT will be removed from STN  
 NEWS 35 Dec 04 CSA files on STN  
 NEWS 36 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date  
 NEWS 37 Dec 17 TOXCENTER enhanced with additional content  
 NEWS 38 Dec 17 Adis Clinical Trials Insight now available on STN  
 NEWS 39 Dec 30 ISMEC no longer available  
  
 NEWS EXPRESS October 14 CURRENT WINDOWS VERSION IS V6.01,  
 CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP),  
 AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002  
 NEWS HOURS STN Operating Hours Plus Help Desk Availability  
 NEWS INTER General Internet Information  
 NEWS LOGIN Welcome Banner and News Items  
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 09:38:09 ON 31 DEC 2002

=> file agricola medline

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'AGRICOLA' ENTERED AT 09:38:17 ON 31 DEC 2002

FILE 'MEDLINE' ENTERED AT 09:38:17 ON 31 DEC 2002

=> s vacuum and agrobacter?

L1 40 VACUUM AND AGROBACTER?

=> s l1 and review

L2 0 L1 AND REVIEW

=> dup rem l1

PROCESSING COMPLETED FOR L1

L3 29 DUP REM L1 (11 DUPLICATES REMOVED)

=> s l3 and monocot?

L4 1 L3 AND MONOCOT?

=> d ti

L4 ANSWER 1 OF 1 AGRICOLA

TI Transient expression of uidA constructs in in vitro onion (Allium cepa L.) cultures following particle bombardment and **Agrobacterium**-mediated DNA delivery.

=> dup rem l4

PROCESSING COMPLETED FOR L4

L5 1 DUP REM L4 (0 DUPLICATES REMOVED)

=> del l4 y

=> d 11-15 ti

1 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE

The answer numbers requested are not in the answer set.

ENTER ANSWER NUMBER OR RANGE (1):1

L5 ANSWER 1 OF 1 AGRICOLA

TI Transient expression of uidA constructs in in vitro onion (Allium cepa L.) cultures following particle bombardment and **Agrobacterium**-mediated DNA delivery.

=> d l3 11-15 ti

L3 ANSWER 11 OF 29 MEDLINE

TI [Sterilization of phacoemulsification and vitrectomy instruments.Contamination and evaluation].  
Hygiene von Phakoemulsifikations- und Vitrektomiegeraten. Kontamination und Bewertung.

L3 ANSWER 12 OF 29 MEDLINE

TI Automated surgical equipment requires routine disinfection of **vacuum** control manifold to prevent postoperative endophthalmitis.

L3 ANSWER 13 OF 29 AGRICOLA

TI High-frequency linkage of co-expressing T-DNA in transgenic Arabidopsis thaliana transformed by **vacuum**-infiltration of **Agrobacterium** tumefaciens.

L3 ANSWER 14 OF 29 AGRICOLA

DUPLICATE 3

TI Floral spray transformation can efficiently generate Arabidopsis

transgenic plants.

L3 ANSWER 15 OF 29 MEDLINE  
TI Molecular dynamics simulations of cyclohenicosakis-[(1-->2)-beta-D-glucosaminicopyranosyl], a cyclic (1-->2)-beta-D-glucan (a 'cyclosphoraose') of DP 21.

=> d 14 ab

1 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE  
The answer numbers requested are not in the answer set.

ENTER ANSWER NUMBER OR RANGE (1):

ANSWER NUMBERS NOT CORRECTLY SPECIFIED

Enter an answer number, Example: 10  
several answer numbers, Example: 3,7,10  
a range of answer numbers, Example: 5-10  
or a combination of these. Example: 3,7,9-10,15  
ENTER ANSWER NUMBER OR RANGE (1):1

L5 ANSWER 1 OF 1 AGRICOLA

AB Particle bombardment and *Agrobacterium*-mediated DNA delivery into immature embryos and microbulbs were used to investigate the expression of the uidA gene in in vitro onion cultures. Both methods were successful in delivering DNA and subsequent uidA expression was observed. Optimal transient beta-glucuronidase activity was observed in immature embryos that had been pre-cultured for three days and bombarded at a distance of 3 cm from the stopping plate, under 25 in Hg vacuum, using 900-1300 psi rupture discs. The CaMV35S-uidA gene construct gave five fold higher transient beta-glucuronidase activity than the uidA gene construct regulated by any of four other promoters initially chosen for high expression in monocotyledonous tissues.

=> d 13 14 ab

L3 ANSWER 14 OF 29 AGRICOLA DUPLICATE 3

=> d 13 14 so

L3 ANSWER 14 OF 29 AGRICOLA DUPLICATE 3  
S0 Transgenic research, Dec 2000. Vol. 9, No. 6. p. 471-476  
Publisher: Dordrecht, The Netherlands : Kluwer Academic Publishers.  
CODEN: TRSEES; ISSN: 0962-8819

=> d 113 10 so

1 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE  
The answer numbers requested are not in the answer set.

ENTER ANSWER NUMBER OR RANGE (1):1

'113' IS NOT A VALID FORMAT FOR FILE 'AGRICOLA'

The following are valid formats:

The default display format is BIB.

ABS ---- AB  
ALL ---- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA,  
SL, AB, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN  
BIB ---- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA,  
SL  
CBIB --- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA,  
SL  
DALL --- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA,  
SL, AB, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN

```

IABS --- AB
IALL --- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA,
        SL, AB, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
IBIB --- AN, DN, TI, AU, CS, AV, LCN, SO, NTE, CY, DT, FS, LA,
        SL
IND ---- CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
SAM ---- TI, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
SCAN --- TI, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
TRI ---- TI, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
TRIAL -- TI, CC, CT, CTLC, CO, NA, ST, GT, GTO, RN, CN
HIT ---- All fields containing hit terms
KWIC --- All hit terms plus 20 words on either side
OCC ---- List of display fields containing hit terms

```

Hit terms will be highlighted in all displayable fields.

To display a particular field or fields, enter the display field codes. For a list of display field codes, enter 'HELP DFIELDS' at an arrow prompt (=>). Examples of formats include: 'BIB'; 'AB'; 'SO,ST'. You may specify the format fields in any order, and the information will be displayed in the same order as the format specification.

The same formats (except for HIT, KWIC, and OCC) may be used with the DISPLAY ACC command to display the record for a specified Accession Number.

```
ENTER DISPLAY FORMAT (BIB):ti
```

```

L5  ANSWER 1 OF 1  AGRICOLA
TI  Transient expression of uidA constructs in in vitro onion (Allium cepa L.)
    cultures following particle bombardment and Agrobacterium
    -mediated DNA delivery.

```

```

=> d l3 11 sol
'SOL' IS NOT A VALID FORMAT
In a multifile environment, a format can only be used if it is valid
in at least one of the files. Refer to file specific help messages
or the STNGUIDE file for information on formats available in
individual files.
REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):so

```

```

L3  ANSWER 11 OF 29      MEDLINE
SO  OPHTHALMOLOGE, (2000 Oct) 97 (10) 703-7.
    Journal code: 9206148. ISSN: 0941-293X.

```

```
=> d l3 16-20 ti
```

```

L3  ANSWER 16 OF 29  AGRICOLA
TI  Development of flooding-tolerant Arabidopsis thaliana by autoregulated
    cytokinin production.

```

```

L3  ANSWER 17 OF 29  AGRICOLA                                DUPLICATE 4
TI  Arabidopsis ecotypes and mutants that are recalcitrant to
    Agrobacterium root transformation are susceptible to germ-line
    transformation.

```

```

L3  ANSWER 18 OF 29  AGRICOLA                                DUPLICATE 5
TI  Transient expression of a tumor-specific single-chain fragment and a
    chimeric antibody in tobacco leaves.

```

```

L3  ANSWER 19 OF 29  AGRICOLA                                DUPLICATE 6
TI  Radiation-sensitive Arabidopsis mutants are proficient for T-DNA

```

transformation. [Erratum: Dec 1999, v. 262 (4/5), p. 909.]

L3 ANSWER 20 OF 29 AGRICOLA DUPLICATE 7  
TI Arabidopsis ovule is the target for **Agrobacterium** in planta  
**vacuum** infiltration transformation.

=> d l3 21-29 ti

L3 ANSWER 21 OF 29 AGRICOLA DUPLICATE 8  
TI A novel promoter from soybean that is active in a complex developmental  
pattern with and without its proximal 650 base pairs.

L3 ANSWER 22 OF 29 AGRICOLA DUPLICATE 9  
TI Floral dip: a simplified method for **Agrobacterium**-mediated  
transformation of Arabidopsis thaliana.

L3 ANSWER 23 OF 29 MEDLINE  
TI In planta **Agrobacterium**-mediated transformation of adult  
Arabidopsis thaliana plants by **vacuum** infiltration.

L3 ANSWER 24 OF 29 AGRICOLA  
TI The effect of temperature on **Agrobacterium** tumefaciens-mediated  
gene transfer to plants.

L3 ANSWER 25 OF 29 AGRICOLA DUPLICATE 10  
TI Frequent collinear long transfer of DNA inclusive of the whole binary  
vector during **Agrobacterium**-mediated transformation.

L3 ANSWER 26 OF 29 AGRICOLA  
TI Effect of antibiotics and exposure to an acidified medium on the  
elimination of **Agrobacterium** tumefaciens from apple leaf  
explants and on shoot regeneration.

L3 ANSWER 27 OF 29 AGRICOLA  
TI Leaf wounding increases efficiency of **Agrobacterium**-mediated  
transformation of apple.

L3 ANSWER 28 OF 29 AGRICOLA  
TI Transient expression of uidA constructs in in vitro onion (Allium cepa L.)  
cultures following particle bombardment and **Agrobacterium**  
-mediated DNA delivery.

L3 ANSWER 29 OF 29 AGRICOLA DUPLICATE 11  
TI Broad-spectrum virus resistance in transgenic plants expressing pokeweed  
antiviral protein.

=> d l3 1-5 ti

L3 ANSWER 1 OF 29 MEDLINE  
TI Characterization of an ultra-violet inducible gene that encodes  
glutathione S-transferase in Arabidopsis thaliana.

L3 ANSWER 2 OF 29 MEDLINE  
TI A carcinoembryonic antigen-specific diabody produced in tobacco.

L3 ANSWER 3 OF 29 AGRICOLA DUPLICATE 1  
TI Factors influencing **Agrobacterium**-mediated transient expression  
of uidA in wheat inflorescence tissue.

L3 ANSWER 4 OF 29 MEDLINE  
TI Germ-line transformation of Arabidopsis lasiocarpa.

L3 ANSWER 5 OF 29 AGRICOLA

TI Transformation of broccoli (*Brassica oleracea* var. *italica*) with isopentenyltransferase gene via **Agrobacterium tumefaciens** for post-harvest yellowing retardation.

=> d 13 5 ab

L3 ANSWER 5 OF 29 AGRICOLA

AB Transgenic plantlets with a retarding effect on post-harvest yellowing in broccoli have been generated via **Agrobacterium tumefaciens**-mediated transformation of cytokinin synthesizing ipt (isopentenyltransferase) gene. The ipt gene is constructed under the control of senescence-associated gene promoters from *Arabidopsis* in the forms of pSG529(+) and pSG766A, which were the gifts from Dr R.M. Amasino at University of Wisconsin, Madison. Evidence of transgene integration was confirmed by assays on neomycin phosphotransferase II (NPTII) activity of selection markers, PCR and Southern hybridization. Based on the chlorophyll retention rate (>50%) after 4 days of post-harvest storage at 25 degrees C, it was found that 31% of transformants exhibited the effect of retarding yellowing in detached leaves, with 16% having the effect on florets and 7.2% on both leaves and florets. RT-PCR revealed that ipt gene expression occurred early on the day of detachment. Factors such as **vacuum** aid infiltration, plasmid differences, explant types, seedling ages and kanamycin concentrations were also studied. Putative transformation frequencies tended to vary with plasmids and explant types. The advantage of **vacuum** aid infiltration depended on explant types. The optimal kanamycin concentration should be determined experimentally for each study to avoid the high escape rate of kanamycin selection. Flow cytometric analysis of explant nuclear DNA phases was found to be helpful for selecting suitable explants for transformation and minimizing the polyploid transformants. A reproducible transformation protocol without any pre-culture was established for explants of hypocotyl, cotyledon, and peduncle. Most of the ipt transformants with a retarding effect on yellowing had a chimeric nature but showed little or no serious morphological abnormality in comparison with their parental line. Through proper selection, transformation lines with the capability of retarding post-harvest yellowing in broccoli should be feasible.

=> logoff y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

4.22

4.43

STN INTERNATIONAL LOGOFF AT 09:43:23 ON 31 DEC 2002